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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,270	01/21/2004	Kia Silverbrook	RRA23US	1025
24011 7590 06/30/2009 SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA				
EXAMINER				
UHLENHAKE, JASON S				
ART UNIT		PAPER NUMBER		
2853				
MAIL DATE		DELIVERY MODE		
06/30/2009		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

**Application No.**

10/760,270

**Applicant(s)**

SILVERBROOK, KIA

**Examiner**

JASON S. UHLENHAKE

**Art Unit**

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 April 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SF/ICE)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Reed (U.S. Pub. 2003/0081050) in view of Silverbrook (U.S. Pat. 6,428,142)

***Reed discloses:***

- ***regarding claim 1***, an inkjet printer cradle including a body defining a recess dimensioned to locate a removable inkjet cartridge, the inkjet cartridge having a page width print head and an ink supply, such that the cradle and cartridge together form an inkjet printer (Paragraphs 0005-0006). Reed further discloses contact pads on the cartridge electrically coupled to the controller in order to control the operation (data, power) of the print head (Figure 5; Paragraph 0029)

Reed does not expressly disclose a removable cartridge. However it would have been obvious incorporate a removable page width print head cartridge since it will need to be replaced when the ink in the cartridge is low or empty, the page width print head cartridge will be placed in a cradle (recess) of the ink jet printer so it is properly installed and secured during the printing operation

***Reed does not disclose expressly the following:***

- **regarding claim 1**, the contacted power terminals of the cradle and cartridge communicating power to inkjet nozzles of the print head via busbars which extend along the page width of the print head and the contacted data terminals of the cradle and cartridge communicating data to the print head at both ends of the page width of the print head

***Silverbrook discloses:***

- **regarding claim 1**, the contacted power terminals of the cradle and cartridge communicating power to inkjet nozzles of the print head via busbars (58, 60) which extend along the page width of the print head and the contacted data terminals of the cradle and cartridge communicating data to the print head at both ends of the page width of the print head (Figures 2, 5, 14; Column 4, Lines 11-20)

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to incorporate power and data terminals which extend along the page width of the print head as taught by Silverbrook into the cradle of Reed, wherein the recess contains terminals or contacts for the cartridge to contact, for the purpose of providing power to an assembly of print heads aligned in adjacent relationships

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reed (U.S. Pub. 2003/0081050) as modified by Silverbrook (U.S. Pat. 6,428,142) as applied to claim 1 above, and further in view of Bolash (U.S. Pat. 6,183,063)

***Reed as modified by Silverbrook discloses:***

- **regarding claim 3 and 4**, wherein the recess is elongate (Paragraphs 0005-0006). Since it is known to use a page width print head cartridge, it is obvious the recess in which the print head is installed is elongated since the page width print head cartridge extends the width of the printing medium.

***Reed as modified by Silverbrook discloses all the claimed limitations except for the following:***

- **regarding claim 2**, wherein the terminals are located upon one or more walls of the recess
- **regarding claim 3**, wherein the terminals are located on at least one end wall of the recess
- **regarding claim 4**, wherein the terminals are located on opposing end walls of the recess

***Bolash discloses:***

- **regarding claim 2**, wherein the terminals are located upon one or more walls of the recess (Figure 1A; Column 3, Line 65 – Column 4, Line 11), for the purpose of activating ink ejection devices on the print head
- **regarding claim 3**, wherein the terminals are located on at least one end wall of the recess. (Figure 1A: Column 3, Line 65 – Column 4, Line 11), for the purpose of activating ink ejection devices on the print head
- **regarding claim 4**, wherein the terminals are located on opposing end wall of the recess (Figure 1A: Column 3, Line 65 – Column 4, Line 11), for the purpose of activating ink ejection devices on the print head

At the time the invention was made it would have been obvious to a person of ordinary skill in the art to incorporate the teaching of Bolash into the device of Reed as modified by Silverbrook, for the purpose of activating ink ejection devices on the print head

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection. Please see the above rejection regarding Reed (U.S. Pub. 2003/0081050) in view of Silverbrook (U.S. Pat. 6,428,142).

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON S. UHLENHAKE whose telephone number is (571)272-5916. The examiner can normally be reached on Monday-Friday 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JASON S UHLENHAKE/  
Examiner, Art Unit 2853  
June 22, 2009

/Julian D. Huffman/  
Primary Examiner, Art Unit 2853